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### **INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

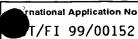
Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.						
2980077PC/nu ACTION							
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/FI 99/00152	27/02/1998						
Applicant							
		•					
OY FINNISH IMMUNOTECHNOLO	GY LTD et al.						
This International Search Report has bee according to Article 18. A copy is being tr	This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.						
This International Search Report consists	of a total of X sheets.						
1	a copy of each prior art document cited in this	s report.					
Basis of the report							
	international search was carried out on the balless otherwise indicated under this item.	sis of the international application in the					
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this					
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:							
contained in the internation	onal application in written form.						
filed together with the inte	ernational application in computer readable for	m.					
	o this Authority in written form.						
	o this Authority in computer readble form.						
the statement that the su international application a	bsequently furnished written sequence listing one signified has been furnished.	does not go beyond the disclosure in the					
the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished							
2. X Certain claims were fou	and unsearchable (See Box I).						
3. Unity of invention is lac	king (see Box II).						
		•					
4. With regard to the <b>title</b> ,		•					
the text is approved as si	ubmitted by the applicant.	•					
the text has been established by this Authority to read as follows:							
5. With regard to the abstract,							
	ubmitted by the applicant.						
the text is approved as submitted by the applicant.  the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.							
6. The figure of the <b>drawings</b> to be published with the abstract is Figure No.							
as suggested by the app		X None of the figures.					
because the applicant fa	led to suggest a figure.	<u> </u>					
because this figure bette	r characterizes the invention.						



International application No.
PCT/FI 99/00152

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)				
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Remark: Although claims 12 and 13 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the self-replicating vector.				
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:				
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	,			
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:				
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				

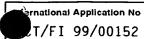
## INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C12N15/86 C12N A61K48/00 C12N15/49 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) C12N A61K IPC 6 C07K Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category Citation of document, with indication, where appropriate, of the relevant passages HINKULA J ET AL: "Nucleic acid 1-15 Α vaccination with HIV regulatory genes: a combination of HIV-1 genes in separate plasmids induces strong immune responses" VACCINE, vol. 15, no. 8, 1 June 1997 (1997-06-01), page 874-878 XP004075674 ISSN: 0264-410X the whole document Α WO 97 24451 A (ESTONIAN BIOCENTRE ; USTAV 1-5,8,9MART (EE)) 10 July 1997 (1997-07-10) cited in the application page 33, line 13 - line 24 Χİ Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents : "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 19 July 1999 26/07/1999 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Cupido, M

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# INTERNATIONAL SEARCH REPORT



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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	HINKULA J ET AL: "Recognition of prominent viral epitopes induced by immunization with human immunodeficiency virus type 1 regulatory genes" JOURNAL OF VIROLOGY, vol. 71, no. 7, 1 July 1997 (1997-07-01), pages 5528-5539, XP002083065 ISSN: 0022-538X cited in the application the whole document	1-15	
<b>A</b>	JOH T ET AL: "PREPARATION OF A MURINE CELL LINE WHICH STABLY EXPRESSES HUMAN T LYMPHOTROPIC VIRUS TYPE I (HTLV-I) ENV GENOME PRODUCTS" GENE, vol. 161, no. 2, 19 August 1995 (1995-08-19), pages 227-230, XP002030981 ISSN: 0378-1119 the whole document		1-15
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### INTERNATIONAL SEARCH REPORT

ation on patent family members

T/FI 99/00152

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9724451 A	10-07-1997	AU 1138897 A CA 2241172 A EP 0870047 A	28-07-1997 10-07-1997 14-10-1998





#### From the INTERNATIONAL BUREAU

# **PCT**

#### **NOTIFICATION OF ELECTION**

(PCT Rule 61.2)

To

Assistant Commissioner for Patents United States Patent and Trademark Office Box PCT Washington, D.C.20231

	ÉTATS-UNIS D'AMÉRIQUE	
Date of mailing (day/month/year)	in its capacity as elected Office	
04 November 1999 (04.11.99)	in its departity as disalted Simos	
International application No.	Applicant's or agent's file reference	
PCT/FI99/00152	2980077PC/nu	
International filing date (day/month/year)	Priority date (day/month/year)	
26 February 1999 (26.02.99)	27 February 1998 (27.02.98)	
Applicant		
TÄHTINEN, Marja et al		
1. The designated Office is hereby notified of its election made:    X   in the demand filed with the International Preliminary Examining Authority on:   10   September 1999 (10.09.99)		

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Claudio Borton

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Facsimile No.: (41-22) 740.14.35